DC-10



SERVICE BULLETING

REVISION TRANSMITTAL SHEET

Bulletin 25-163 DC-10 SC 1853

EQUIPMENT/FURNISHINGS - Passenger Compartment - Modify Partition Vertically Mounted Emergency Oxygen Boxes.

This page transmits Revision 1 for DC-10 Service Bulletin 25-163 to incorporate the following changes:

NOTE: Discard only those pages of previously issued bulletin which are affected by this revision and replace with attached pages.

<u>Peason for Revison</u>: To delete 14 operators and associated aircraft from Service Bulletin Effectivity not affected by this

modification. No additional work is required by this revision.

Deleted operators AM, AZ, IB, KE, KL, LH, PK, QC, RG, RK, SN,

Pages 1 Deleted operators SR, TE, and UT

NOTE: The affected operators should make the appropriate correction to the Service Bulletin Summary, as required, to incorporate the intent of this revision.

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BULLETIN 25-163 DC-10 SC 1853

SERVICE BULLETIN

EQUIPMENT/FURNISHINGS - Passenger Compartment - Modify Partition Vertically Mounted Emergency Oxygen Boxes.

1. Planning Information:

A. Effectivity:

(1) Aircraft Affected:

Model DC-10, Series 10, 30, and 40

	<u>Operator</u>	Factory Serial No.			*Mfr's Fuselage No.	
	AA	46500 46502	thru	46525	1 3, 5, 7, 9, 12, 13, 20 thru 24, 30, 31, 37, 48, 49, 51, 52, 54 thru 56, 58, 65, and 72	
	со	46900 47800	thru thru	46904 47806	34, 40, 41, 43, and 44 92, 98, 101, 139, 142, 145, and 148	
1	DL	47965	thru	47969	59, 64, 67, 74, and 80	

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MCDONNELL DOUGLAS SERVICE BULLETIN

<u>Operator</u>	Factory Serial No.		al No.	*Mfr's Fuselage No.	
LT	46727 46905	and	46906	83 47 and 50	
мн	46891			127	
NA .	46700 46706		46703 46712	14, 16, 18, and 19 38, 61, 62, 68, 70, 105, and 106	
NW -	467 50	thru	46767	28, 36, 53, 66, 79, 97, 102, 108, 111, 113, 120, 124, 126, 128, 130, 143, 151, and 161	
OV	46825	and	46826	81 and 109	

TK	46705 46907			33 78
TV	46800	thru	46802	96, 103, and 110
UA	46600	thru	46624	4, 6, 8, 10, 11, 15, 17, 25 thru 27, 32, 35, 39, 42, 45, 76, 86, 89, 118, 119, 138, 140, 144, 154, and 155

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<u>Operator</u>	Factory Serial No.	*Mfr's Fuselage No.
WA	46908 46928 thru 46930 46938	95 104, 107, and 112 153

Affected aircraft other than those listed above will be modified prior to delivery or included in a subsequent revision to this Service Bulletin.

*Manufacturer's fuselage numbers are applicable to affected aircraft at time of Service Bulletin issue and are for reference only.

(2) Spares Affected:

None.

B. Reason:

One operator and DAC personnel have reported instances of the vertically mounted passenger emergency oxygen doors not dropping through the full 180-degree deployment. This condition is attributed to difficulty in achieving proper door hinge adjustment. If not modified, the door may not fully deploy, restricting the passage space between the partition and passenger seating. Replacing the oxygen box hinges with hinges that permit adjustment of the door without removal of the box assembly from the partition cavity, will facilitate adjustment and ensure full 180-degree deployment of door.

C. <u>Description</u>:

This modification accomplishes the following at each vertically mounted emergency oxygen box on the divider partitions, galley bustles, and coatrooms, as applicable:

- (1) Replaces oxygen box hinges.
- (2) Installs inserts in partition.

D. <u>Compliance</u>:

It is recommended this modification be incorporated at first convenient structural check period, but not to exceed 4000 flight-hours after receipt of this Service Bulletin.



E. Approval:

This Service Bulletin is FAA approved.

F. Manpower:

This modification may be accomplished in approximately 1.5 man-hours or 1.5 elapsed hours per oxygen box assembly.

For scheduling maintenance purposes each box assembly may be modified independently at different time periods.

NOTE: This Service Bulletin assumes that the aircraft/unit has been placed in a maintenance status. The man-hour/elapsed time estimates do not include:

- 1. Preparation for the modification: Examples; defueling, purging, placing work stands, opening standard access doors, obtaining tools, and jacking when jacking is not essential to the modification.
- Nonproductive elapsed time: Examples; sealant or adhesive cure time, cleaning, paint drying time, lunch and/or rest periods, and quality assurance inspections.
- 3. Administrative functions: Examples; planning, engineering liaison, parts requisition, shift change coordination, and report writing.

Operators should take the above into consideration when scheduling this modification.

G. Material - Cost and Availability:

(1) Aircraft:

Parts and materials required to accomplish this modification are listed in paragraph 3.A and are to be procured as indicated. Parts with unit net prices are proprietary parts and must be purchased as end item spares from the Douglas Aircraft Company under the spare parts article of the purchase agreement. Unit net prices are subject to change by current pricing policies. Parts will be available in approximately 180 days after receipt of purchase order.

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The purchase order must specify this Service Bulletin number and only parts listed herein. Direct purchase order to:

Douglas Aircraft Company P.O. Box 1771

Long Beach, California 90801

Attn: Parts Sales - Commercial 7-21

(2) Spares:

Not applicable.

H. Tooling - Price and Availability:

None.

I. Weight and Balance:

None.

J. References:

- (1) This Service Bulletin may be accomplished in conjunction with DC-10 Service Bulletins 35-7 and 35-12 due to proximity of modification area.
- (2) Data used in preparation of this Service Bulletin:

Data Identification	Change	Type of Data
AWE7137 AWE7510 AWE7596 AWE7710 AWE7744 AWE7783 AWE8199 DPS 1.902, Type 2, dtd 5-21-73 MM Chapter 35	M F C B D L	Advance E.O. Douglas Process Standard Maintenance Manual

K. Publications Affected:

The modification outlined in this Service Bulletin affects the following DAC DC-10 aircraft publication.

Publication	Chapter and/or Section
Illustrated Parts Catalog	25-22

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2. Accomplishment Instructions:

WARNING: TO AVOID INJURY TO PERSONNEL OR DAMAGE TO EQUIPMENT, MAKE CERTAIN ADEQUATE PRECAUTIONS ARE TAKEN WHILE PERFORMING ANY WORK IF

ELECTRICAL POWER IS APPLIED TO THE AIRCRAFT.

USE CAUTION WHEN OPENING EMERGENCY OXYGEN DOORS NOT TO PULL OXYGEN GENERATOR FIRING PIN LANYARDS. IF OXYGEN GENERATORS ARE ACTIVATED, THE CASE TEMPERATURES MAY REACH 547° FAHRENHEIT.

CAUTION: ELECTRICALLY GROUND THE AIRCRAFT.

NOTE: Chapters within parentheses refer to sections of the Maintenance Manual.

Only vertically mounted emergency oxygen boxes, located in divider partitions, galley bustles, and coatrooms, as applicable, are affected by this modification.

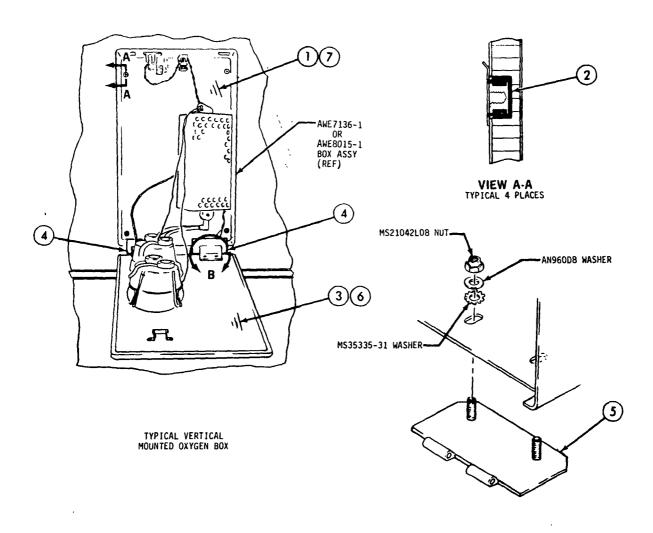
Instructions are typical for each emergency oxygen box assembly.

- A. Gain access to vertically mounted emergency oxygen module, located in divider partition, galley bustle, or coatroom, as applicable, by manually releasing door latching mechanism. (See Chapter 35-20-00.)
- B. Disconnect and tag electrical leads of latching mechanism from system wiring, install safety cap on oxygen generator firing pin, and remove and stow oxygen masks. (See Chapters 35-21-01, 35-22-01, and 35-22-02.)
- C. Install new oxygen box assembly attachments and hinges as shown on Figure 1.
- D. Install oxygen masks, connect electrical leads, and remove firing pin safety cap.
- E. Adjust hinge for alignment and full 180-degree downward deployment of door.
- F. Close emergency oxygen module door.

CAUTION: ENSURE THAT LANYARD AND OXYGEN SUPPLY

HOSES FOLD WITHOUT KINKS OR TWISTS,

OR ARE NOT CRIMPED IN DOOR.



VIEW B
TYPICAL HINGE INSTALLATION
2 PLACES

NOTE: THE FOLLOWING INSTRUCTIONS ARE TYPICAL FOR EACH VERTICALLY MOUNTED PARTITION EMERGENCY OXYGEN BOX ASSEMBLY.

- 1 REMOVE AND RETAIN EMERGENCY OXYGEN BOX ASSEMBLY FROM PARTITION RECESS. DISCARD ATTACHING PARTS.
- (2) INSTALL FOUR SL607-08-7S INSERTS IN PARTITION AS FOLLOWS:
 - a. DRILL OUT FOUR EXISTING HOLES IN PARTITION TO .453/.458-INCH DIAMETER TO A MINIMUM DEPTH OF .397 INCH.
 - b. INSTALL INSERTS USING SLE3009 CASTING COMPOUND. (SEE DOUGLAS PROCESS STANDARD 1.902, TYPE 2.)
- (3) REMOVE DOOR FROM OXYGEN BOX ASSEMBLY. RETAIN HINGE PINS.
- $m{4}$ REMOVE TWO AWE7133-11 HINGES AND ATTACHING PARIS.
- (5) INSTALL TWO AWE7133-13 HINGES USING FOUR MS35335-31 WASHERS, AN960D8 WASHERS, AND MS21042LOB NUTS.
- (6) INSTALL DOOR ON OXYGEN BOX ASSEMBLY USING RETAINED HINGE PINS.
- (7) INSTALL OXYGEN BOX ASSEMBLY IN PARTITION RECESS USING FOUR AN960DB WASHERS AND NASS302-6 SCREWS.

VERTICALLY MOUNTED OXYGEN BOX - MODIFICATION



3. Material Information:

- A. The basis for the following material data is per vertically mounted emergency oxygen box assembly.
 - (1) Parts to be purchased as end item spares.

NOTE: Quantity of hinge assemblies required per aircraft to be determined by the operator.

New Part No.	Qty	Unit Net <u>Price</u>	Key Word	Old Part No.	Instructions- Disposition
AWE7133-13	2	\$10.60	Hinge Assy	AWE7133-11	Discard

(2) Parts and material to be procured from operator's stock or sources indicated.

	New Part No.	<u>9</u>	<u>lty</u>	Key Word	Old Part No.	Instructions- Disposition
	AN960D8 MS21042L08 MS35335-31 NAS5302-6 SLE3009 A/B	Δε	8 4 4 4 Reqd	Washer Nut Washer Screw Casting	2656012-10-8	Discard <u>1</u> /
	SL607-08-7S		4	Compound Insert		<u>2</u> /
<u>1</u> / May	be purchased	from:	Dalco Indus 13703 Cords Unit #6 Hawthorne,		90250	<u>FSCM</u> 51532
<u>2</u> / M ay	be purchased	from:	Shur-Lok Co 1300 East Co Santa Ana,	orporation Normandy Pla California	ce 92702	97393

NOTE: FSCM indicates Federal Supply Code for Manufacturers.

B. The basis for the following material data is per spares.

None.

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